KADI SARVA VISHWAVIDYALAYA
B.Sc Mathematics Semester 6 Syllabus (W.E.F. June 2019)

B.Sc Mathematics Semester VI

Subject Code	Course	Instructions Hrs / week	Examination		Total	Credit
			Internal	University Exam		
CMAT-601	Abstract Algebra-II	3	30	70	100	3
CMAT-602	Mathematical Analysis- II	3	30	70	100	3
CMAT-603	Graph Theory	3	30	70	100	3
CMAT-604	Operations Research- II	3	30	70	100	3
PCMAT-601	Mathematics Practical - IV	12	00	200	200	6
SE Math 601 A	(Discipline Specific Specialization) Business Mathematics- IV	2	50	00	50	2
SE Math 601 B	(Discipline Specific Specialization) Discrete Mathematics- IV					
FCG-601	(Generic Elective) Personality Development & Interview Skills	2	50	00	50	2
EGC- 601	(University Elective) Basic English- VI	2	15	35	50	2
Total		**30**	**235**	**515**	**750**	**24**

KADI SARVA VISWAVIDYALAYA

B.Sc. (MATHEMATICS), SEMESTER-6 SCHEME

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B.Sc Mathematics Semester 6 Syllabus (W.E.F. June 2019)

CMAT 601- Abstract Algebra-II

RATIONALE: This course is designed to enable students to acquire basic understanding of the basic concepts of abstract algebra applied to rings and polynomials.

LEARNING OUTCOMES:
- Understand the concept of algebraic structures eg. rings.
- Develop an understanding of polynomials.
- Gain knowledge about the quotient rings and homomorphism.

TEACHING AND EVALUATION SCHEME: The objective of evaluation is not only to measure the performance of students, but also to motivate them for better performance. Students are evaluated on the basis of Mid Term examinations for 30 marks and End Term Examination conducted by University examination for 70 marks.

Subject Code	Subject Title	Credits	Hrs.	Theory		Total Marks
				Max Marks		
				Mid Term	End Term	
CMAT- 601	Abstract Algebra-II	3	48	30	70	100

COURSE CONTENT

Unit I : Rings
Number of Lectures: 15   **Weightage: 34%**
Definition of a Ring and illustrations, Properties of a Ring, Zero divisors and Integral domain, Characteristic of an Integral Ring, Solution of the equation $ax = b$ in a ring R, Subrings, Ideals

UNIT II : Polynomials
Number of Lectures: 15   **Weightage: 33%**
Introduction of Polynomials, Integral Domain D[x], Familiar form of Integral domain D[x], Unique factorization of Polynomials, Solutions of a Polynomial Equation, Eisenstein Criterion for irreducibility.

UNIT III: Ideals
Number of Lectures: 18   **Weightage: 33%**
Quotient ring, Homomorphism of rings, Maximal Ideal, Prime Ideal

Reference books:

1. Topics in Algebra, I N Herstein, Wiley Eastern Ltd.
2. Basic Algebra Vol I & II, N. Jacobson, Hindustan Publishing company
3. A text book of Modern Algebra, Shanti Narayan, S.Chand & Co.
4. Basics Abstract Algebra, (second Edition), P.B.Bhattacharya, S.K.Jain, S R Nagpal, Cambridge University Press.
5. University Algebra, N.S. Gopalkrishna, Wiley Eastern, New Delhi
6. Algebra, Maclane Saunders and Birkhoff Garrett MacMillan, New York.
7. Introduction to Topology and Modern Analysis, G.F.Simmons, MacGrawHill Inc., U.S.A.

Teaching Instructions:
1. Interactions with the students to understand the level of students
2. Explaining & discussing mathematics formulas and derivations.
3. Teaching the topics included in the syllabus with the help of teaching aids like OHP, LCD (Power point presentation), Notes, Question Banks, References and Reprints / Copy of Articles, Models, Diagrams
4. Assistance in solving of questions from our question bank.

TEACHING AND EXAMINATION

UNIT	Examination Scheme %Weightage	Teaching Scheme No. of Lecture
Unit I	34	15
Unit II	33	15
Unit III	33	18
Total	100	48

KADI SARVA VISHWAVIDYALAYA
B.Sc Mathematics Semester 6 Syllabus (W.E.F. June 2019)

CMAT 602- Mathematical Analysis-II

RATIONALE: This course is designed to enable students to acquire basic understanding of the basic concepts of differentiation and limits & Continuity.

LEARNING OUTCOMES:
- Understand the concept of limits and continuity for real valued functions
- Develop an understanding of Riemann Integrals
- Gain knowledge about the uniform convergence with differentiation and integration

TEACHING AND EVALUATION SCHEME: The objective of evaluation is not only to measure the performance of students, but also to motivate them for better performance. Students are evaluated on the basis of Mid Term examinations for 30 marks and End Term Examination conducted by University examination for 70 marks.

Subject Code	Subject Title	Credits	Theory			Total Marks
			Hrs.	Max Marks		
				Mid Term	End Term	
CMAT- 602	**Mathematical Analysis- II**	**3**	**48**	**30**	**70**	**100**

COURSE CONTENT

Unit I
Number of Lectures: 15   **Weightage: 34%**
Unit – 1 Functions of Single Variable

Limit and continuity: Limit and continuity for real valued functions, continuity on closed intervals and uniform continuity

Differentiation: Derivative of a real function, monotonic functions, Darboux's theorem, Rolle's Theorem, Lagrange's mean value theorem, Cauchy's mean value theorem, higher order derivatives, indeterminate forms, Taylor's theorem

UNIT II   Riemann integral

Number of Lectures: 15   **Weightage: 33%**
Refinement of partition, Darboux theorem, condition of integrability, Riemann sum, the fundamental theorem of calculus, integration by parts, change of variable in an integral, second mean value theorem

UNIT III Sequence and Series

Number of Lectures: 18   **Weightage: 33%**

Convergence on real valued functions, point wise convergence, uniform convergence on an interval, test for uniform convergence, uniform convergence and continuity, uniform convergence with integration & differentiation

Reference books:

1. Principles of Mathematical Analysis, Walter Rudin, McGraw Hill (International Student Edition), 3rd Edition.
2. A First Course in Mathematical Analysis, D. Somasundaram and B. Choudhary, Narosa Publishing House.
3. Fundamentals of Mathematical Analysis, G. Das & S. Pattnayak Tata Mcgraw Hill Pub.Co
4. Fundamental of Real Analysis, S. L. Gupta & Nisha Rani, Vikas Pub. House Pvt. Ltd. New Delhi-1974.
5. Principles of Real Analysis, S.C. Malik , Wiley Eastern Limited New Delhi, 1982.

Teaching Instructions:
1. Interactions with the students to understand the level of students
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4. Assistance in solving of questions from our question bank.

TEACHING AND EXAMINATION

UNIT	Examination Scheme %Weightage	Teaching Scheme No. of Lecture
Unit I	34	15
Unit II	33	15
Unit III	33	18
Total	100	48

KADI SARVA VISHWAVIDYALAYA
B.Sc Mathematics Semester 6 Syllabus (W.E.F. June 2019)

CMAT 603- Graph Theory

RATIONALE: This course is designed to enable students to acquire basic understanding of the graph theory, its concepts and applications.

LEARNING OUTCOMES:
- Understand the concept of graph, path
- Develop an understanding of adjacency matrix of a graph
- Know about the real life applications of graph theory

TEACHING AND EVALUATION SCHEME: The objective of evaluation is not only to measure the performance of students, but also to motivate them for better performance. Students are evaluated on the basis of Mid Term examinations for 30 marks and End Term Examination conducted by University examination for 70 marks.

Subject Code	Subject Title	Credits	Hrs.	Theory		Total Marks
				Max Marks		
				Mid Term	**End Term**	
CMAT- 603	**Graph Theory**	**3**	**48**	**30**	**70**	**100**

COURSE CONTENT

Unit I : Graph: Basic Concepts
Number of Lectures: 15   **Weightage: 34%**
Basic Definitions, Finite and Infinite Graphs, Incidence and Degree, Isolated Vertex, Pendant Vertex, Null Graph, Bipartite Graph, Paths and Circuits, Graph Isomorphism , Sub Graphs, A puzzle with Multicoloured Cubes, Graph Operations, Walk, Trail, Paths ,Circuits, Connected Graph, Disconnected Graph, Components, Euler Graphs, Hamilton Paths and Circuits, Weighted Graphs.

UNIT II : Trees , Cut Sets, Planar and Dual Graphs
Number of Lectures: 15   **Weightage: 33%**
Trees, Distance and Centres in a Tree, Spanning Trees, Cut set, Connectivity and Separability, Planar Graphs and their different Representation, Kuratowski's Two Graphs, Euler's Formula, Detection of Planarity, Geometric and Combinatorial duals, Vector Space associated with a Graph. Circuit and Cut set Subspaces, Orthogonal Vectors and spaces.

UNIT III: Matrix Representation, Coloring, Covering and Partitioning

Number of Lectures: 18   **Weightage: 33%**

Incidence Matrix, Adjacancy Matrix of a Graph, Path matrix and their relationships, Coloring of a Graph, Chromatic Number, Chromatic Partitioning, Covering, Five Colour Problem, Maximal Independent Set, Directed Graphs, Acyclic digraphs.

REFERENCE BOOKS:

1. An Introduction To Discrete Mathematics - Udayan M.Prajapati, Dr.Ajay S. Gor, Nirav Prakashan
2. Graph Theory with Applications to Engineering and Computer Science, Narsing Deo

3. Discrete Mathematical Structures with Applications to Computer Science, Trembley I.P. and Mahonar R.

4. Graph Theory, Harry F.

5. Graph Theory and its applications, B. Harris

6. Discrete Mathematical Structures with applications to Computer Science, R.Hamming and E.A. Feigenbaum

7. Discrete Mathematical Structures for Computer Science, B.Kolman and R.C.Busy

8. The Essence of Discrete Mathematics, Neville Dean

Teaching Instructions:
1. Interactions with the students to understand the level of students
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4. Assistance in solving of questions from our question bank.

TEACHING AND EXAMINATION

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Unit I	34	15
Unit II	33	18
Unit III	33	15
Total	100	48

CMAT 604- Operations Research- II

RATIONALE: This course is designed to enable students to acquire basic understanding of the Operations research and its various models

LEARNING OUTCOMES:
- Understand the concept of transportation models and assignment problem.
- Develop an understanding of sequencing problems
- Gain knowledge about game theory and dominance principle.

TEACHING AND EVALUATION SCHEME: The objective of evaluation is not only to measure the performance of students, but also to motivate them for better performance. Students are evaluated on the basis of Mid Term examinations for 30 marks and End Term Examination conducted by University examination for 70 marks.

Subject Code	Subject Title	Credits	Hrs.	Theory		Total Marks
				Max Marks		
				Mid Term	End Term	
CPH- 604	Operations Research- II	3	48	30	70	100

COURSE CONTENT

Unit I : Transportation and Assignment Problem
Number of Lectures: 15   **Weightage: 34%**
Transportation Problem- Introduction, general method of a T.P., unbounded T.P. NWCM, Least cost method, VAM methods to find the initial solution, Dual of a T.P. and MODI method, degeneracy in a T.P., variations in T.P.- Maximization T.P. and prohibited routes.
Assignment Problem- General model of A.P.(A.P. as a special case of a T.P.) Hungarian Method of solving a A.P., variations in a A.P.- maximization, prohibited assignments.
Network Models- Concept of Networks.

UNIT II : Sequencing Problem
Number of Lectures: 18   **Weightage: 33%**
Methods of sequencing, Johnson's Algorithm for a two machine problem, three machine problem and M-machine problem, Processing two jobs through m machines

UNIT III: Game Theory
Number of Lectures: 18   **Weightage: 33%**
Introduction, Two-person zero games, Minimax and Maximin principles, saddle point theorems, mixed strategies, method for solution of 2×2 game, dominance principles, solution of games

without saddle points by using dominance and then mixed strategies, graphical method of solving 2×m and m×2 game, L.P. solution of games.

REFERENCES BOOKS:
1. Operations Research, by. J.K.Sharma. Macmillan Publishers India Ltd.
2. Operations Research: An Introduction, Hamdy A. Taha
3. Operations Research(Principles and Practice) by Pradeep Prabhakar Pai, Oxford University Press.

Teaching Instructions:
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TEACHING AND EXAMINATION

UNIT	Examination Scheme %Weightage	Teaching Scheme No. of Lecture
Unit I	34	15
Unit II	33	15
Unit III	33	18
Total	100	48

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PC CMAT IV- Practicals in Mathematics- IV

Objectives:

- Ensure the student can competently use the SCILAB programming environment
- Understand the capabilities of SCILAB for solving complex mathematical problems
- Understand the tools that are essential in solving real-world problems applying appropriate Mathematical concept.

Unit I

Input-Output Statements in SCILAB

Data input, interactive inputs, reading/storing file data, output commands, formatted input-output functions.

Unit II

Programming Techniques

Loops, Branches control structures, **SCILAB** programming, function subprograms, types of functions, function handles, errors and warnings, **SCILAB** debugger.

Unit III

SCILAB Applications:

The content of this unit is to be covered from the list given in Appendix A.

Unit IV

Practical using SCILAB programming

List of practical is given in Appendix B.

Text Book: "SCILAB and its Applications in Engineering", Raj Kumar Bansal, Ashok Kumar Goel, Manoj Kumar Sharma, Pearson.

Appendix A:

Table A.1

Discrete Math\Number theoretic functions	
Factor	Returns Prime factors
factorial	Factorial function
nchoosek	All combinations of N elements taken K at a time
perms	All possible permutations
gcd	Returns the greatest common divisor.
lcm	Returns the least common multiple.
primes	Generate list of prime numbers
isprime	Returns a logical array that is prime numbers.
rat, rats	Returns a rational fraction approximation.
mod	The mod function is useful for congruence relationships. Returns modulus after
rem	Returns remainder after division.

Table A.2

Coordinate System Conversion	
cart2sph	Transform Cartesian to spherical coordinates
cart2pol	Transform Cartesian to polar coordinates
pol2cart	Transform polar to Cartesian coordinates
sph2cart	Transform spherical to Cartesian coordinates

Table A.3

Interpolation Functions	
interp1	Linear and cubic-spline interpolations of a function of one variable.
interp2	Linear interpolation of a function of two variables.
spline	Cubic-spline interpolation.
unmkpp	Computes the coefficients of cubic-spine polynomials.

Table A.4

Numerical Integration Functions	
quad	Numerical integration with adaptive Simpson's rule.
quadl	Numerical integration with adaptive Lobatto quadrature.
trapz	Numerical integration with the trapezoidal rule.
quadv	Vectorized quadrature

dblquad	Numerically evaluate double integral
triplequad	Numerically evaluate triple integral

Table A.5

Numerical Differentiation Functions	
diff(x)	Computes the difference between adjacent elements in the vector x.
polyder	Differentiates a polynomial, a polynomial product, or a polynomial quotient.

Table A.6

ODE Solvers	
ode23	Nonstiff, low-order solver.
ode45	Nonstiff, medium-order solver.
ode113	Nonstiff, variable-order solver.
ode23s	Stiff, low-order.
ode23t	Moderately stiff, trapezoidal rule solver.
ode23b	Stiff, low-order solver.
ode15s	Stiff, variable-order solver.
odeset	Creates integrator options structure for ODE solvers.
deval	Evaluate solution of differential equation problem
bvp4c	Solve boundary value problems for ODEs

Table A.7

Optimization	
fminbnd	Finds minimum of single-variable function.
fzero	Finds zero of single-variable function.
fminsearch	Multidimensional unconstrained nonlinear minimization
lsqnonneg	Linear least squares with nonnegativity constraints
fminunc	Find minimum of unconstrained multivariable function
fmincon	Find minimum of constrained nonlinear multivariable function
linprog	Solve linear programming problems

Table A.8

Statistical Functions	
erf(x)	Computes the error function $erf(x)$.
mean	Calculates the average.
median	Calculates the median.

std	Calculates the standard deviation.
var	Calculates the variance.
corrcoef	Correlation coefficients
cov	Covariance matrix

Appendix B:

1. Numerical Methods Practical (Lab) using SCILAB programming
2. Calculus
3. Optimization
4. Problems related to programming given in text book.

Assignment: The work should involve programming using SCILAB. The student should submit the electronic copy of .m files or/and diary file showing the execution/output of SCILAB session(s).

Subjective Elective: EMAT- 601A Business Mathematics- IV

RATIONALE: This course is designed to enable students to acquire understanding about the basic principles of business mathematics .

LEARNING OUTCOMES:
- Develop an understanding of the Probability distribution
- Understand the applications of Probability distribution and its importance

TEACHING AND EVALUATION SCHEME: The objective of evaluation is not only to measure the performance of students, but also to motivate them for better performance. Students are evaluated on the basis of Mid Term Examination for 50 marks.

Subject Code	Subject Title	Credits	Hrs.	Theory			Total Marks
				Max Marks			
				Mid Term Theory	Mid Term Viva	End Term	
EMAT- 601 A	**Business Mathematics-IV**	**2**	**24**	**20**	**30**	**…**	**50**

COURSE CONTENT

Unit:1 : Poisson distribution
Number of lectures: 12   **Weightage: 50%**
Poisson distribution, Characteristics and Properties of Poisson distribution, Fitting of Poisson distribution

Unit:2 : Normal distribution
Number of lectures: 12   **Weightage: 50%**
Characteristics and Properties of Normal distribution, Importance of Normal distribution, Conditions under which Binomial and Poisson distribution tends to be a Normal Distribution

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Reference books:

1. Business Statistics, Dr. P.C. Tulsian & Bharat Jhunjhunwala, S.Chand Publication
2. Business Mathematics, D.C. Sancheti & V.K. Kapoor, Sultan Chad & Sons Publication, New Delhi
3. Business Mathematics, B.S. Shah Prakashsan, Ahmedabad.

Teaching Instructions:

1. Interactions with the students to understand the level of students
2. Explaining & discussing mathematics formulas and derivations.
3. Teaching the topics included in the syllabus with the help of teaching aids like OHP, LCD (Power point presentation), Notes, Question Banks, References and Reprints / Copy of Articles, Models, Diagrams
4. Assistance in solving of questions from our question bank.

TEACHING AND EXAMINATION

UNIT	Examination Scheme %Weightage	Teaching Scheme No. of Lecture
Unit I	50	12
Unit II	50	12
Total	100	24

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Subjective Elective: EMAT- 601B Discrete Mathematics- IV

- **RATIONALE:** This course is designed to enable students to acquire understanding of the concepts in Modeling Computation.

Subject Code	Subject Title	Credits	Hrs.	Theory			Total Marks
				Max Marks			
				Mid Term Theory	Mid Term Viva	End Term	
EMAT- 601 B	Discrete Mathematics- IV	2	24	20	30	…	50

COURSE CONTENT

Unit-I
Number of lectures: 12   **Weightage: 50%**
Modeling Computation I: Language and grammars, Types of grammars and languages, Regular sets and regular languages
Unit-II
Number of lectures: 12   **Weightage: 50%**
Modeling Computation II: Finite state machines, Machine minimization, Finite state machine as language recognizers, Kleen's theorem (Without proof)

REFERENCES:

(1) Discrete Mathematics, M.K Gupta, Krishna's Educational Publishers, 13th Edition
(2) Discrete Mathematical Structures, D.S Malik, M.K Sen, Cengage Learning
(3) Kenneth H. Rosen, "Discrete mathematics and its applications", 6th edition, Mc Graw Hill International Edition
(4) Schaum's Outline of Theory and Problems of Discrete Mathematics, Marc Lipson and Seymour Lipschutz

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FCG 601-Basic English – VI

RATIONALE: This course is designed tenable students to acquire basic understanding of English grammar. The course would help students to fortify their knowledge of English and strengthen their basic communication abilities.

LEARNING OUTCOMES:

- Understandthefunctionsandusageofsentenceframing,sentencecorrecti onand synthesis the sentences
- Develop language skills of reading through filling in appropriate words in blanks, correcting errors, choosing correct forms, etc.
- AcquireinterestinEnglishlanguageandliteraturethroughtextbooklessons.
- Acquire writing skill through developing story.
- Acquire the speaking skill through speeches.

TEACHING AND EVALUATION SCHEME: The objective of evaluation is not only to measure the performance of students, but also to motivate them for better performance. Students are evaluated on the basis of Mid Term examinations for 15 marks and End Term ExaminationconductedbyUniversityexaminationfor35marks.

Subject Code	Subject Title	Credits	Theory			Total Marks
			Hrs.	Max Marks		
				Mid Term	End Term	
FCG - 602	Basic English – VI	2	24	15	35	50

Unit 1: Number of lectures:8 Weightage 33%
Lesson2:*BetweentheMosque* **Lession7:***MyFinancialCareer* **Lession8:***SpeechonIndianIndependence* **Poem14:***TheWorldisTooMuchwithus* **Poem 15 :***Success is Counted Sweetest* **Poem16:** *I,Too,SingAmerica* **TheJoyofReading**selectedProse&Poetry

Unit 2: Grammar	Number of lectures: 4	Weightage 17%

- Transformation,Correction(prepositions,Tenses,Concord)
- Synthesis ofSentences
- Avoiding Common errors in English Grammar

Unit 3:	Number of lectures:8	Weightage 33%

- Questionnaire (on current Issues i.e.Social, political, Educational)
- Components of Questionnaire

Unit 4 Preparing Speeches	Number of lectures:4	Weightage 17%

- Introducing ChiefGuest
- FarwellSpeech
- Speech on annualfunctions
- MourningtheDeathofVIP
- Speech on RepublicDay

REFERENCES

1. HighSchoolEnglishGrammar–Wrenn&Martin
2. ContemporaryEnglishGrammar–DavidGreen

INSTRUCTION STRATEGIES

1. Interactions with the students to understand the level of students
2. Explaining & discussing English language structures.
3. Teaching the topics included in the syllabus with the help of teaching aids like OHP,
   LCD(Powerpointpresentation),Notes,QuestionBanks,ReferencesandRe prints/ Copy of Articles, Models, Diagrams
4. Assistance in solving of questions from our question bank.

TEACHING AND EXAMINATION

UNIT	Examination Scheme	Teaching Scheme
Unit 1	33	8
Unit 2	17	4
Unit 3	33	8
Unit 4	17	4
Total	**100**	**24**

EGC 601- Personality Development & Interview Skills

RATIONALE: This course is designed to enable students to acquire basic understanding of the components of professional communication, the skills required for the same and practice them.

LEARNING OUTCOMES:

- To build confidence for communicating in English and create interest for the life-long learning of English language
- To describe and characterize spoken English both from the grammatical and the discourse perspectives.
- To draw comparisons between oral and written language through the use of representative oral and written language.

TEACHING AND EVALUATION SCHEME:

The objective of evaluation is not only to measure the performance of students, but also to motivate them for better performance. Students are evaluated on the basis of Mid Term examinations for 15 marks and End Term Examination conducted by University examination for 35marks.

Subject Code	Subject Title	Credits	Theory			Total Marks
			Hrs.	Max Marks		
				Mid Term	End Term	
EGC- 601	Personality Development & Interview Skills	2	24	50	--	50

COURSE CONTENT

Unit – I Self Development and Communication:	Number of lectures: 12
	Weightage: 50%

     (a) Professional Etiquettes
     (b) Goal Setting
     (c) Time Management
     (d) Stress Management

Unit – IIA.Writing Skills **Number of lectures: 06**		**Weightage: 25%**
(a) Resume writing (Application Que) (b) Report Writing (Application Que) (c) E-mail etiquettes		
Unit II B. Interview Skills		**Weightage: 25%**
(a) Types of Interview (b) Preparation of an Interview (c) Effective guidelines for an interview		

RECOMMENDED READING:

1. V. Sasikumar : A Course in Listening and Speaking – I, Cambridge Uni. Press

2. G. Taylor:English Conversation Practice, Tata Mcgraw-Hill Publishing Co. Ltd.

3. Wrenn&Martin:High School English Grammar & Composition, S, Chand Pub.

4. Kumar S and Lata P Communication Skills 2011: New Delhi Oxford University Press

INSTRUCTION STRATEGIES

1. Interaction with the students to understand the level of students.

2. Teaching the topics included in the syllabus with the help of tool like Power point presentation, Notes, References, Copy of Articles, Models, diagram

TEACHING AND EXAMINATION

UNIT	Examination Scheme %Weightage	Teaching Scheme No. of Lecture
Unit 1	50	12
Unit 2	50	12
Total	100	24